

Stud Diode

Rectifier Diode

SKN 45

SKR 45

Features

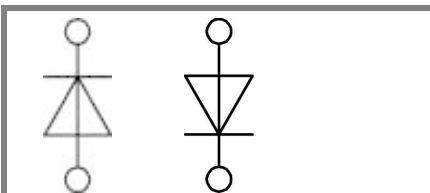
- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Threaded stud ISO M8
- SKN: anode to stud, SKR: cathode to stud

Typical Applications*

- All-purpose mean power rectifier diodes
- Cooling via heatsinks
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes
- Recommended snubber network:
 $RC: 0,1 \mu F, 100 \Omega (P_R = 1 W)$
 $R_P = 80 k\Omega (P_R = 6 W)$

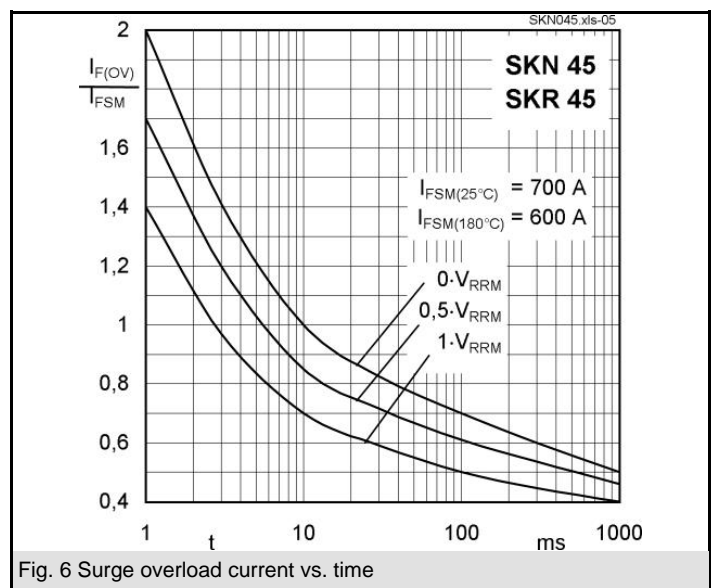
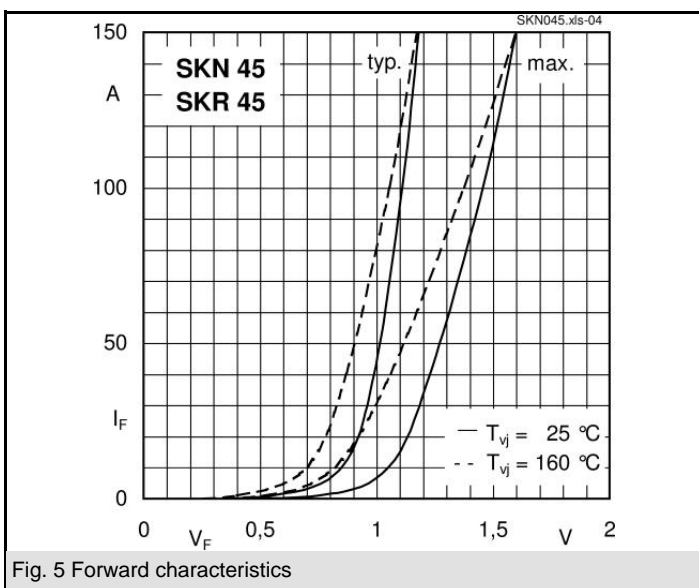
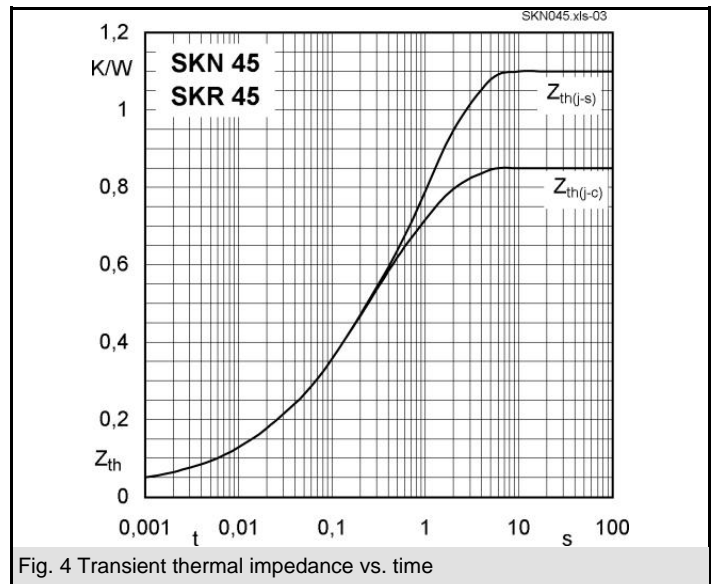
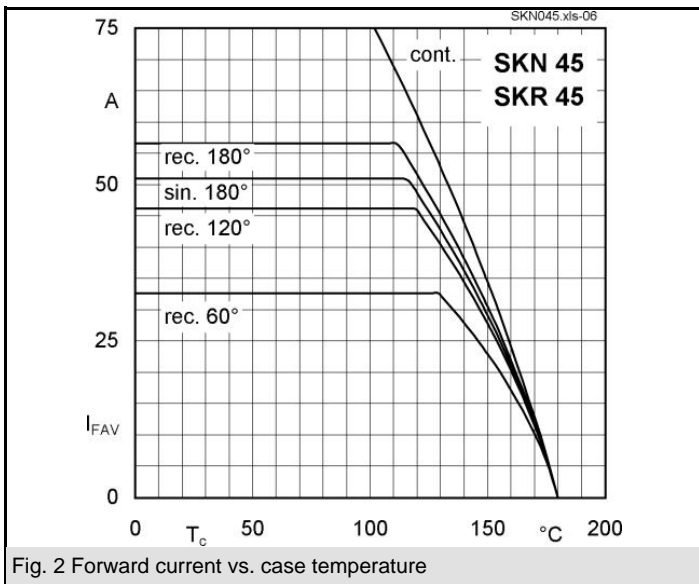
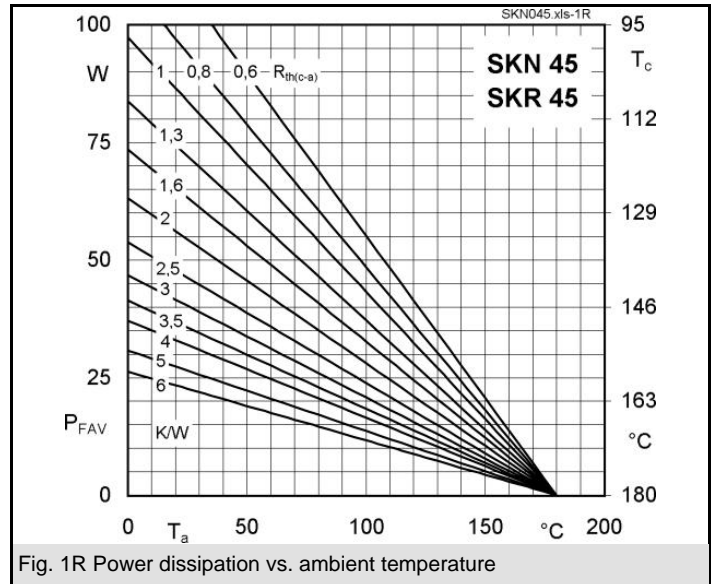
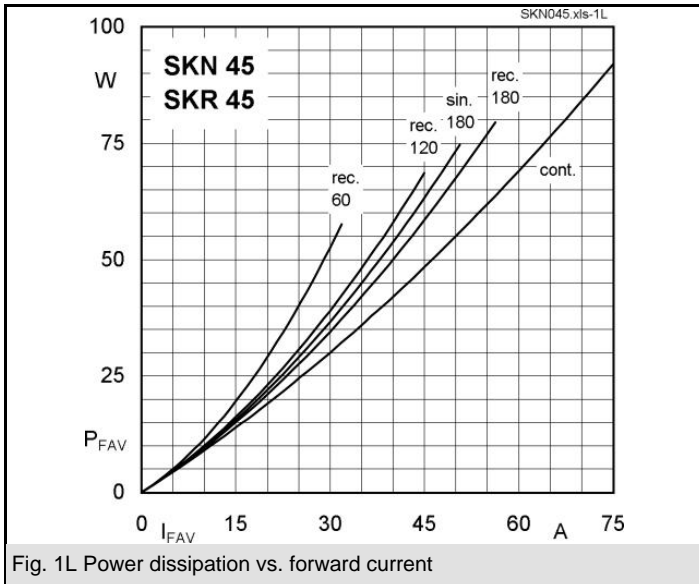
V_{RSM} V	V_{RRM} V	$I_{FRMS} = 80 A$ (maximum value for continuous operation)	
		$I_{FAV} = 45 A$ (sin. 180; $T_c = 125^\circ C$)	
400	400	SKN 45/04	SKR 45/04
800	800	SKN 45/08	SKR 45/08
1200	1200	SKN 45/12	SKR 45/12
1400	1400	SKN 45/14	SKN 45/14
1600	1600	SKN 45/16	SKR 45/16

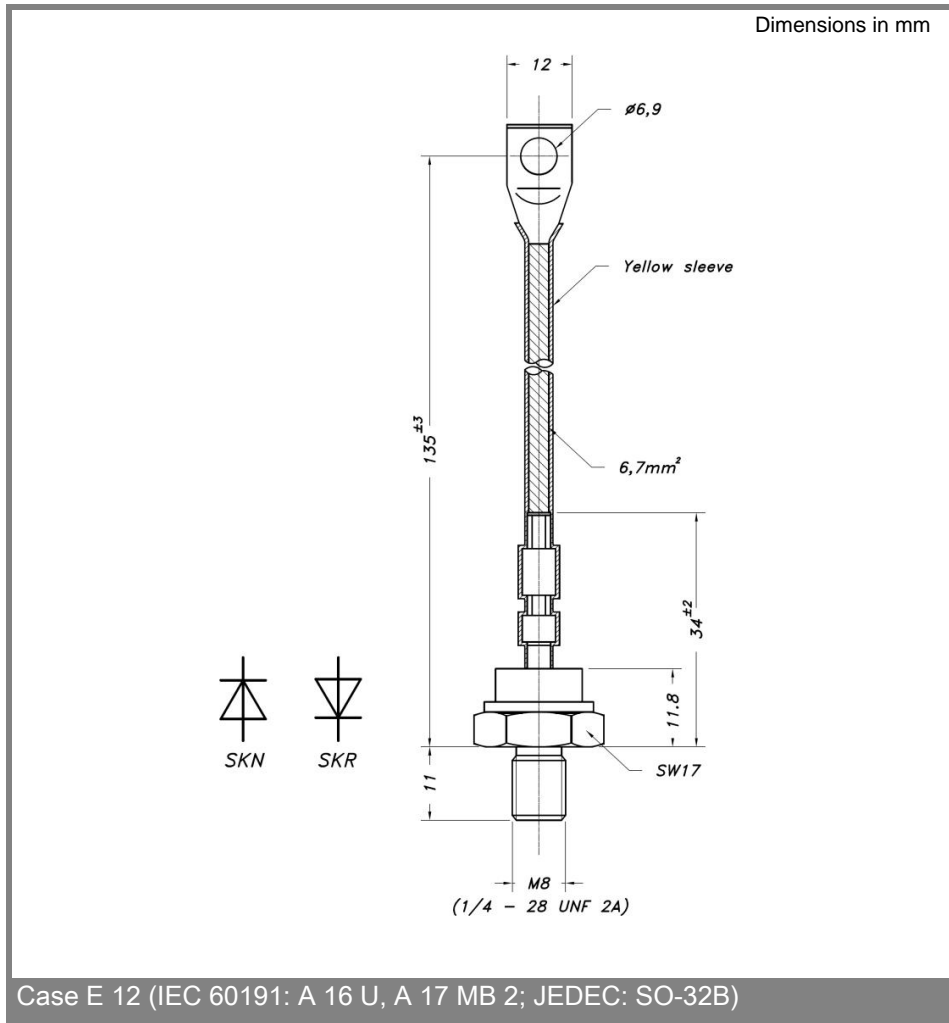
Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 100^\circ C$	50	A
I_D	K 5; $T_a = 45^\circ C$; B2 / B6	40 / 57	A
	K 1,1; $T_a = 45^\circ C$; B2 / B6	86 / 120	A
I_{FSM}	$T_{vj} = 25^\circ C$; 10 ms	700	A
	$T_{vj} = 180^\circ C$; 10 ms	600	A
i^2t	$T_{vj} = 25^\circ C$; 8,3 ... 10 ms	2500	A ² s
	$T_{vj} = 180^\circ C$; 8,3 ... 10 ms	1800	A ² s
V_F	$T_{vj} = 25^\circ C$; $I_F = 150 A$	max. 1,6	V
$V_{(TO)}$	$T_{vj} = 180^\circ C$	max. 0,85	V
r_T	$T_{vj} = 180^\circ C$	max. 5	m Ω
I_{RD}	$T_{vj} = 180^\circ C$; $V_{RD} = V_{RRM}$	max. 10	mA
Q_{rr}	$T_{vj} = 160^\circ C$; $- di_F/dt = 10 A/\mu s$	70	μC
$R_{th(j-c)}$		0,85	K/W
$R_{th(c-s)}$		0,25	K/W
T_{vj}		- 40 ... + 180	$^\circ C$
T_{stg}		- 55 ... + 180	$^\circ C$
V_{isol}		-	V~
M_s	to heatsink	4	Nm
a		5 * 9,81	m/s ²
m	approx.	30	g
Case		E 12	



SKN

SKR





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